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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/485,525	02/09/2000	DOROTHEA LAMPE	P99,2604	2026	
75	590 07/14/2003				
KEVIN R. SPIVAK MORRISON & FOERSTER LLP 2000 PENNSYLVANIA AVENUE, N.W.			EXAMINER		
			RYMAN, DANIEL J		
WASHINTON, DC 20006-1888			ART UNIT	PAPER NUMBER	
			2665	11)	
			DATE MAILED: 07/14/2003	DATE MAILED: 07/14/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Application No. Display				LA matina mata			
## Examiner Daniel J. Ryman 2665 ## The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. Extractions of time may be available under the provisions of 3°C ERT. 135(a). In no event, however, may a reply be timely filled. If NO period for reply is pacified above, the maintainum stabulary period will apply and will expire SX (b) MXNN HTS from the realising date of this communication of the provision of 3°C ERT. 135(a). In the event, however, may a reply be timely filled. If NO period for reply is pacified above, the maintainum stabulary period will apply and will apply and will be stabulary into the provision of	Office Action Summary		Application No.	Applicant(s)			
Daniel J. Ryman Z665			09/485,525				
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THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provision of 37 CFR 1.13(6), in no event, however, may a reply be timely fitted after \$3k. (8) MONTHS from the mailing date of this communication. It no percent of or reply is specified above, the mailurns assurance predicts and pays and will explicit \$3k. (8) MONTHS from the mailing date of this communication. Falser to reply within the set or extended private from the mailing date of this communication. Falser to reply within the set or extended private for reply will, by statute, cause the application to become ASANDONED (38 U.S. C. § 133). Any reply received by the Office during this hand the mailing date of this communication, even if finely filed, may reduce any. Status 1) Responsive to communication(s) filed on 24 June 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Etaim(s) 10-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are objected to extriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) cocepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is/are: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The eath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Although open of the priority documents have been received in this National Stage application from the International Bureau (PCT Ru	···						
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DETAILED ACTION

Response to Arguments

- 1. Applicant argues in the response filed 24 June 2003 in paragraphs 3 and 4 under "Remarks" that the present invention and Soumiya differ. Applicant does not, however, specifically address in these arguments how Soumiya fails to disclose the limitations set fourth in the claims. Since Applicant does not discuss the rejections, Examiner maintains that Soumiya discloses the limitations of the claims as is discussed in the rejections set forth in the previous office action and below in this office action.
- 2. In paragraph 5 under "Remarks", Applicant argues that Soumiya does not disclose using a sustainable cell rate and a peak cell rate in the estimation of the call bandwidth since Soumiya discloses using an average cell rate and a peak cell rate in the calculation. Since both Soumiya and the present invention use a peak cell rate in the calculation, Examiner will focus on the differences between sustainable cell rate and average cell rate rather than the peak cell rates. In the interpretation of claims, Examiner gives the broadest interpretation for the meaning of each term in a claim. "Sustainable cell rate" is a very broad term which gives rise to a variety of meanings. In this instance, the Examiner interpreted this phrase as "a cell rate that indicates the flow of information over a long period of time for a particular stream" since this is the bandwidth necessary for an information flow without burst properties to be sustained (see Soumiya: col. 5, lines 17-32). Under this interpretation, an average cell rate is a sustainable cell rate. In addition, although Applicant defines the SCR in the specification as "the upper limit for an average cell rate with which the cells are transmitted during the existence of the connection" (page 2, lines 16-18), limitations from the specification are not read into the claims. See *In re Van Geuns*, 988

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F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Even if limitations from the specification were read into the claims, it would have been obvious to one of ordinary skill in the art at the time of the invention to use the SCR, as defined in the specification, in place of average cell rate since SCR is a specific estimate within average cell rate.

- 3. In response to applicant's argument, in paragraph 6 under "Remarks," that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., material constant C and the maximum possible load on the link) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).
- 4. Finally, in paragraph 7 under "Remarks," Applicant argues that Examiner may not make conclusory statements of obviousness without evidentiary support on the record. Applicant seems to indicate that without evidence of a teaching of an initial value, Examiner may not state that the initial value exists. However, because a reference does not need to show the "nuts and bolts" of the invention, the initial value could be included in the system of Soumiya without explicit mention by Soumiya. In fact, Examiner contends that the initial value has to be in Soumiya's system. Without an initial value, the system could not operate because in order to change a value, an initial value must first exist in order to be changed. Although Soumiya does not expressly disclose the use of an initial value, it would have been obvious to one of ordinary skill in the art at the time of the invention that Soumiya uses an initial value since an initial value is a prerequisite for the system due to the fact that a system cannot change a value without first having a value to change. Applicant further argues that Examiner cannot use an inherency

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argument in an obviousness rejection. However, Examiner is not using an inherency argument in an obviousness rejection. Rather, Examiner is stating that it would have been obvious to one of ordinary skill in the art at the time of the invention that the system contains an initial value.

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 10-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Soumiya et al (USPN 5,583,857).
- 8. Regarding claim 10, Soumiya discloses a method for statistical multiplexing of ATM connections comprising: conducting a plurality of ATM connections over a common connecting

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line (col. 5, lines 48-56 and col. 7, lines 12-28), the plurality of ATM connections having an effective bandwidth reserved for conduction of the aggregate of the plurality of ATM connections on the connecting line (col. 17, lines 24-54) and utilizing an acceptance algorithm that allocates potential added connections to one of a first class (Fig. 19: step 202 VBR) and a second class (Fig. 19: step 202 CBR) (col. 17, lines 15-23), and deciding whether an additional potential added connection can be accepted by the common connecting line based on acceptance criteria and a prescribed effective bandwidth (col. 7, lines 19-64 and col. 17, lines 15-67), the deciding step comprising the steps of identifying the prescribed effective bandwidth on a step-by-step basis with at least one of a setup and a release of connection (col. 17, lines 15-59), wherein the identification starts from an initial value and the acceptance algorithm is performed at every step (col. 17, lines 15-59) where, although not expressly stated, it obvious that there is an initial value such that the process either begins with a zero effective bandwidth upon initialization if no calls are yet allocated bandwidth or it is initialized with the bandwidth of any connections the line will carry at initialization; determining whether at least one of the additional potential added connection or a released connection may be accepted by at least one of the first class and the second class (col. 7, lines 19-64 and col. 17, lines 15-67); defining a first bandwidth representative of the first class (V) and a second bandwidth representative of the second class (VX) (col. 17, lines 28-54), modifying at least one of the first and second bandwidths by at least one of a first traffic parameter value and a second traffic parameter value based on the acceptance of the additional potential added connection to at least one of the first class and the second class (col. 17, lines 15-67 and col. 18, line 17-col. 19, line 43); and at least one of accepting and rejecting the additional potential added connection based on at least the identified

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prescribed effective bandwidth and the acceptance criteria (col. 17, lines 54-62 and col. 21, lines 4-29) where at least one of the acceptance criteria is that the total effective bandwidth including the potential added connection is less than the physical bandwidth. While Soumiya possibly does not expressly disclose that the estimated bandwidth is equivalent to effective bandwidth, it would have been obvious to one of ordinary skill in the art at the time of the invention that Soumiya's estimated bandwidth is equivalent to effective bandwidth (col. 17, lines 24-43) where effective bandwidth is defined to be the average of the actual bandwidth of the connections.

- 9. Regarding claim 11, referring to claim 10, Soumiya discloses that the first traffic parameter value is a sustainable cell rate and the second traffic parameter value is a peak cell rate of the corresponding connection (col. 17, lines 15-67 and col. 18, line 17-col. 19, line 43).
- 10. Regarding claim 12, referring to claim 10, Soumiya discloses that at least one of the acceptance criteria is established such that, in the case of the connection setup, when the additional potential added connection can be accepted to the first class (VBR), a calculation is performed to determine whether the first bandwidth identified is adequate including this connection, wherein the first bandwidth is not allowed to exceed the sum of the peak cell rates of all connections (col. 18, lines 51-55 and col. 21, lines 4-29) where VH1 is always less than or equal to PH1 (peak cell rates) since VH1 is not equal to PH1 only when VH1 is equal to AH1 when AH1 is less than PH1; and the first bandwidth is incremented by the first traffic parameter value (sustainable cell rate which is equivalent to average cell rate, Ra) (col. 18, lines 17-24 and col. 18, lines 51-55) when the at least one of the acceptance criteria (estimated peak cell rate is greater than average cell rate) is met (col. 18, lines 51-55) and the first bandwidth is incremented

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by the second traffic parameter value (peak cell rate, Rp) (col. 18, lines 35-43 and col. 18, lines 51-55) when the at least one of the acceptance criteria is not met (col. 18, lines 51-55).

- 11. Regarding claim 13, referring to claim 12, Soumiya discloses that when the additional potential added connection cannot be allocated to the first class (VBR), it is automatically allocated to the second class (CBR) and the second bandwidth is incremented by the second traffic parameter value (peak cell rate) (col. 17, lines 15-67).
- 12. Regarding claim 14, referring to claim 10, Soumiya discloses that at least one of the acceptance criteria is established such that, in the case of the connection setup, when the additional potential added connection can be accepted to the first class (VBR), a calculation is performed to determine whether the first bandwidth identified is adequate including this connection, wherein the first bandwidth is not allowed to exceed the sum of the peak cell rates of all connections (col. 18, lines 51-55 and col. 21, lines 4-29) where VH1 is always less than or equal to PH1 (peak cell rates) since VH1 is not equal to PH1 only when VH1 is equal to AH1 when AH1 is less than PH1; and the first bandwidth is incremented by the first traffic parameter value (sustainable cell rate which is equivalent to average cell rate, Ra) (col. 18, lines 17-24 and col. 18, lines 51-55) when the at least one of the acceptance criteria (estimated peak cell rate is greater than average cell rate) is met (col. 18, lines 51-55) and the first bandwidth is incremented by the second traffic parameter value (peak cell rate, Rp) (col. 18, lines 35-43 and col. 18, lines 51-55) when the at least one of the acceptance criteria is not met (col. 18, lines 51-55). Although it is not expressly stated that at least one of the acceptance criteria is established such that, in the case of the connection release when the released connection can be accepted by the first class, a calculation is performed to determine whether the first bandwidth, exclusive of this connection,

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is adequate for the remaining connections, wherein the first bandwidth is not allowed to exceed the sum of the peak cell rates of all connections and the first bandwidth is diminished by the second traffic parameter value when the at least one of the acceptance criteria is met and the first bandwidth is diminished by the first traffic parameter value when the at least one of the acceptance criteria is not met, such a step would have been obvious to one of ordinary skill in the art at the time of the invention. Soumiya discloses, when a connection is not accepted, adjusting the values of the estimated bandwidths back to their original values (col. 21, lines 17-21). It is obvious that such steps are necessary in order to ensure that the total estimated bandwidth accurately reflects the current total bandwidth of all connections present on the connecting line. If this process did not take place, the total estimated bandwidth would reflect a greater amount of bandwidth present on the connecting line than is actually present. In a similar vein, when a connection is torn-down it would be obvious to decrement the estimated bandwidth using the same criterion as was used to estimate the bandwidth at establishment such that the total estimated bandwidth will accurately reflect changes within the line. If such a process did not take place, such that the bandwidth decremented at tear-down was not equal to the bandwidth incremented at set-up, total estimated bandwidth would be an inaccurate measurement for the total bandwidth of the system. It would have been obvious to one of ordinary skill in the art at the time of the invention to account for released connections by diminishing bandwidth according to the same criteria as was used to increase bandwidth during start-up in order to ensure that total bandwidth is accurate.

13. Regarding claim 15, referring to claim 12, Soumiya discloses that when the additional potential added connection cannot be allocated to the first class (VBR), it is automatically

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allocated to the second class (CBR) and the second bandwidth is incremented by the second traffic parameter value (peak cell rate) (col. 17, lines 15-67). Although it is not expressly stated that when the connection to be released cannot be allocated to the first class, it is automatically allocated to the second class and the second bandwidth is diminished by the second traffic parameter value. Soumiya discloses, when a connection is not accepted, adjusting the values of the estimated bandwidths back to their original values (col. 17, lines 55-62). It is obvious that such steps are necessary in order to ensure that the total estimated bandwidth accurately reflects the current total bandwidth of all connections present on the connecting line. If this process did not take place, the total estimated bandwidth would reflect a greater amount of bandwidth present on the connecting line than is actually present. In a similar vein, when a connection is torn-down it would be obvious to decrement the estimated bandwidth using the same criterion as was used to estimate the bandwidth at establishment such that the total estimated bandwidth will accurately reflect changes within the line. If such a process did not take place, such that the bandwidth decremented at teardown was not equal to the bandwidth incremented at set-up, total estimated bandwidth would be an inaccurate measurement for the total bandwidth of the system. It would have been obvious to one of ordinary skill in the art at the time of the invention to account for released connections by diminishing bandwidth according to the same criteria as was used to increase bandwidth during start-up in order to ensure that total bandwidth is accurate.

14. Regarding claim 16, referring to claim 11, Soumiya discloses that at least one of the acceptance criteria is established such that, in the case of the connection setup, when the additional potential added connection can be accepted to the first class (VBR), a calculation is performed to determine whether the first bandwidth identified is adequate including this

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connection, wherein the first bandwidth is not allowed to exceed the sum of the peak cell rates of all connections (col. 18, lines 51-55 and col. 21, lines 4-29) where VH1 is always less than or equal to PH1 (peak cell rates) since VH1 is not equal to PH1 only when VH1 is equal to AH1 when AH1 is less than PH1; and the first bandwidth is incremented by the first traffic parameter value (sustainable cell rate which is equivalent to average cell rate, Ra) (col. 18, lines 17-24 and col. 18, lines 51-55) when the at least one of the acceptance criteria (estimated peak cell rate is greater than average cell rate) is met (col. 18, lines 51-55) and the first bandwidth is incremented by the second traffic parameter value (peak cell rate, Rp) (col. 18, lines 35-43 and col. 18, lines 51-55) when the at least one of the acceptance criteria is not met (col. 18, lines 51-55). Although it is not expressly stated that at least one of the acceptance criteria is established such that, in the case of the connection release when the released connection can be accepted by the first class, a calculation is performed to determine whether the first bandwidth, exclusive of this connection, is adequate for the remaining connections, wherein the first bandwidth is not allowed to exceed the sum of the peak cell rates of all connections and the first bandwidth is diminished by the second traffic parameter value when the at least one of the acceptance criteria is met and the first bandwidth is diminished by the first traffic parameter value when the at least one of the acceptance criteria is not met, such a step would have been obvious to one of ordinary skill in the art at the time of the invention. Soumiya discloses, when a connection is not accepted, adjusting the values of the estimated bandwidths back to their original values (col. 21, lines 17-21). It is obvious that such steps are necessary in order to ensure that the total estimated bandwidth accurately reflects the current total bandwidth of all connections present on the connecting line. If this process did not take place, the total estimated bandwidth would reflect a greater amount of

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bandwidth present on the connecting line than is actually present. In a similar vein, when a connection is torn-down it would be obvious to decrement the estimated bandwidth using the same criterion as was used to estimate the bandwidth at establishment such that the total estimated bandwidth will accurately reflect changes within the line. If such a process did not take place, such that the bandwidth decremented at tear-down was not equal to the bandwidth incremented at set-up, total estimated bandwidth would be an inaccurate measurement for the total bandwidth of the system. It would have been obvious to one of ordinary skill in the art at the time of the invention to account for released connections by diminishing bandwidth according to the same criteria as was used to increase bandwidth during start-up in order to ensure that total bandwidth is accurate.

- 15. Regarding claim 17, referring to claim 11, Soumiya discloses that the effective bandwidth is derived from the sum of the first and second bandwidth (Fig. 19, step 206'; col. 17, lines 24-62; and col. 21, lines 4-29).
- 16. Regarding claim 18, referring to claim 11, Soumiya suggests that the acceptance algorithm is started only once per connection to be one of potentially added and released (Fig. 19: call request admission; col. 17, lines 15-67; and col. 21, lines 4-29).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Ryman whose telephone number is (703)305-6970. The examiner can normally be reached on Mon.-Fri. 7:00-5:00 with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (703)308-6602. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703)308-6743 for regular communications and (703)308-9051 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-3900.

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Daniel J. Ryman July 8, 2003

SUPERVISORY PATENT EXAMINER

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